

SUPER ENCRYPTED STORAGE AND RETRIEVAL OF MEDIA PROGRAMS WITH
SMARTCARD GENERATED KEYS

ABSTRACT OF THE DISCLOSURE

5 A method and apparatus for storing and retrieving program material for
subsequent replay is disclosed. In summary, the present invention describes a system and
method for storing and retrieving program material for subsequent replay. The method
comprises the steps of accepting encrypted access control information and the program
material encrypted according to a first encryption key, the access control information
10 including a first encryption key and control data; decrypting the received access control
information to produce the first encryption key; decrypting the program material using
the first encryption key; re-encrypting the program material using according to a second
encryption key; encrypting the second encryption key according to a third encryption key
to produce a fourth encryption key; and providing the re-encrypted program material and
15 a fourth encryption key for storage. The apparatus comprises a conditional access
module, for accepting encrypted access control information and the program material
encrypted according to a first encryption key, the encrypted access control information
including the first encryption key and temporally-variant control data, the control access
module comprising a first decryption module, for decrypting the access control
20 information to produce the first encryption key; a first encryption module, for encrypting
a second encryption key with a third encryption key to produce a fourth encryption key;
and a second decryption module for decrypting the fourth encryption key to produce the
second encryption key.

25